



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Pella Corporation
102 Main Street
Pella, IA 50219

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "350 HurricaneShield® 4½" Vinyl" Outswing White PVC Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. PELL0027, titled "Series 350 4-½" Vinyl Casement Window – Impact", sheets 1 through 13 of 13, dated 01/04/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoroso, P.E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Manuel Perez, P.E.



Handwritten signature and date:
7/6/27/13

NOA No. 13-0114.07
Expiration Date: July 04, 2018
Approval Date: July 04, 2013
Page 1

Pella Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **PELL0027**, titled "Series 350 4-½" Vinyl Casement Window – Impact", sheets 1 through 13 of 13, dated 01/04/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P. E.

B. TESTS

1. Test reports on: 1.) Air Infiltration Test, per FBC, TAS 202-94
2.) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3.) Water Resistance Test, per FBC, TAS 202-94
4.) Large Missile Impact Test per FBC, TAS 201-94
5.) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of series 350 vinyl casement window, prepared by Element Materials Technology, Des Moines, Test Report No. **ESP010280P.Dade.Rev**, dated 07/20/12, revised on 05/01/13, signed and sealed by Jason R. Steen, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, dated 12/24/12 and revised on 04/22/13, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
2. **Glazing complies with ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.
2. Notice of Acceptance No. **12-1017.02** issued to Quanex Building Products, Inc. for "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 02/07/13, expiring on 12/26/16.

F. STATEMENTS

1. Statement letter of no financial interest, independence, conformance and complying with **FBC-2010**, dated 01/08/13, issued by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
2. Proposal No. **12-0115** issued by Product Control, dated March 6, 2012, signed by Manuel Perez, P.E.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0114.07
Expiration Date: July 04, 2018
Approval Date: July 04, 2013

PELLA CORPORATION

SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED, EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN AS FOLLOWS.
 - IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE - SECTIONS 1609.1.2, 1626, 1715.5.2, 1715.5.4 AND 2411.3 AND TO THE 2010 FLORIDA RESIDENTIAL CODE - SECTIONS R301.2.1.2, R612.6, R612.10, R4403.16 AND R4410.2.3.
 - PERFORMANCE STANDARDS:
 - TAS 201-94, LARGE MISSILE IMPACT
 - TAS-202-94
 - TAS 203-94
- THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. ESP010280P.DADE, DATED JULY 20, 2012 AND ASSOCIATED LABORATORY DRAWINGS BY ELEMENT MATERIALS TECHNOLOGY, DES MOINES, IA. TESTING WAS CONDUCTED TO TAS 201-94, TAS 202-94 AND TAS 203-94.
- THIS PRODUCT EVALUATION DOCUMENT IS FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
- WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THE FOLLOWING IMPACT PROTECTIVE REQUIREMENTS ARE MET:
 - HIGH VELOCITY HURRICANE ZONE (HVHZ):
 - LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE:
 - THESE WINDOWS MEET LARGE MISSILE IMPACT REQUIREMENTS OF THE 2010 FBC, SECTION 2411.3.3.7 AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM. SEE NOTE 3 ON SHEET 8 OF 13.
 - SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS EXCEEDING 30 FEET ABOVE GRADE:
 - THESE WINDOWS MEET SMALL MISSILE IMPACT REQUIREMENTS OF THE 2010 FBC, SECTION 2411.3.3.7 WHEN GLAZED ON THE EXTERIOR USING SAFETY GLAZING AND DO NOT REQUIRE USE OF AN APPROVED HVHZ IMPACT PROTECTIVE SYSTEM. SEE NOTE 4 ON SHEET 8 OF 13.
 - WINDBORNE DEBRIS AREAS OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (NON-HVHZ):
 - WHEN INSTALLED IN LOCATIONS WHERE NON-HVHZ WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT DOES NOT REQUIRE USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM.
- SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
- MATERIALS:
 - WINDOW FRAME MATERIAL: VINYL (PVC).
 - LAMINATED GLAZING INTERLAYERS
 - DUPONT BUTACITE INTERLAYER MATERIAL.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300-09a.
- DESIGNATION "X" STANDS FOR THE FOLLOWING OPERABLE SASH.
- THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

SEE SHEET 2 FOR DESIGN PRESSURES.

INSTALLATION NOTES:

- PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
- SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
 - EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
- SEE SHEETS 5, 6 and 7 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH THE TABLES ON SHEET 2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE TABLES ON SHEET 2 ARE ACCEPTABLE.
 - SEE ADDITIONAL NOTES ON SHEET 2.
- MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
 - FOR BLOCK, FIN & FLANGE FRAME INSTALLATIONS, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR.
- FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

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5 - 7	INSTALLATION SECTIONS
8	GLAZING DETAIL AND GLAZING NOTES
9	BILL OF MATERIALS
10	VERTICAL CROSS SECTION
11	HORIZONTAL CROSS SECTION
12	COMPONENT SECTIONS
13	INSTALLATION CLIP DETAIL AND CORNER CONSTRUCTION

PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

PREPARED BY: DATE: 01/04/13

DRAWN BY: RJA SCALE: N.T.S. SHEET: 1 OF 13

PELL0027

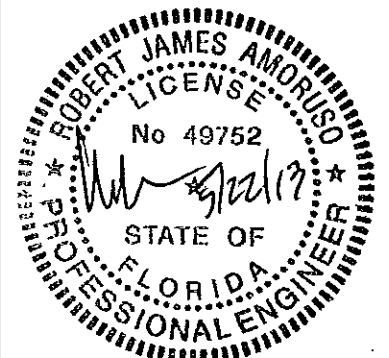
REV: -

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Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOAH 131014.07
Miami Dade Product Control

By: *Manuel Perez*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



SERIES 350 CASEMENT WINDOW INSTALLATION REQUIREMENTS									
Max. Size Tested	Design Pressure (PSF)	Glass Type Required (See Sheet 8)	Substrate	Installation Type	End Spacing All Corners	Quantity of Anchors at Head & Sill	Center to Center Spacing Head & Sill	Quantity of Anchors at Jamb	Center to Center Spacing Jamb
35 1/2" x 71 1/2"	+70/-75	G3 and G4	Wood/Concrete/CMU/Metal *	Clip	4"	3	13.8"	7	10.6"
35 1/2" x 71 1/2"	+70/-75	G3 and G4	Wood/Concrete/CMU/Metal *	Thru-Frame	4"	3	13.8"	6	12.7"
35 1/2" x 65 1/2"	+70/-72	G1	Wood/Concrete/CMU/Metal *	Clip or Thru-Frame	4"	3	13.8"	6	11.5"
35 1/2" x 65 1/2"	+70/-75	G2	Wood/Concrete/CMU/Metal *	Clip or Thru-Frame	4"	3	13.8"	6	11.5"
* METAL SUBSTRATES INCLUDE THE FOLLOWING: (a) 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS, ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER (b) 1/8" MIN. THK. ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER (c) 0.060" MIN. THK. 6063-T5 ALUMINUM OR BETTER									

INSTALLATION ANCHOR SCHEDULE							
INSTALLATION TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN)	EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON
INSTALLATION CLIP OR THRU-FRAME	FLAT OR HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE
				ELCO ULTRACONS	1-3/8"	1"	MIN. 2500 PSI CONCRETE
				ELCO CRETE-FLEX SS4	2"	2"	MIN. 2500 PSI CONCRETE
				HILTI KWIK-CON II	1-3/4"	1-1/8"	MIN. 2000 PSI CONCRETE
			MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1"	2"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
				ELCO ULTRACONS	1-1/4"	1"	
				ELCO CRETE-FLEX SS4	1-1/4"	2"	
				HILTI KWIK-CON II	1"	1-1/8"	
INSTALLATION CLIP, INSTALLATION CLIP - BENT OR THRU-FRAME	FLAT OR PAN HEAD	NO. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2)	1-3/8"	3/4" LATERAL 1/2" WITHDRAWAL (3)	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55.
				ASME B18.6.4 (TAPPING SCREW) (2)			
			20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS	ASME B18.6.4 (TAPPING SCREW)	FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	5/16"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. A-36 STEEL OR BETTER	ASME B18.6.4 (TAPPING SCREW)		5/16"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. 6063-T5 ALUMINUM OR BETTER	ASME B18.6.4 (TAPPING SCREW)		3/8"	6063-T5 ALUMINUM OR BETTER

NOTES:

1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

2) FOR WOOD AND TAPPING SCREWS INSTALLATION INTO WOOD SUBSTRATE; IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR LATERAL APPLICATIONS AND 3/32" FOR WITHDRAWAL APPLICATIONS. SEE NOTE 3 BELOW FOR FURTHER DEFINITION.

3) LATERAL IS APPLICABLE TO INSTALLATION CLIP AND THRU-FRAME; WITHDRAWAL IS APPLICABLE TO INSTALLATION CLIP - BENT.

- NOTES:
- INSTALLATION ANCHOR SCHEDULE**
 - THIS TABLE LISTS APPROVED ANCHOR SPECIFICATIONS BASED ON THE INSTALLATION TYPE AND SUBSTRATE.
 - SERIES 350 CASEMENT WINDOW INSTALLATION REQUIREMENTS**
 - THIS TABLE LISTS THE FOLLOWING INFORMATION.
 - DESIGN PRESSURE (PSF).
 - END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.
 - MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.
 - QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.
 - MAXIMUM WINDOW SIZES (W x H)
 - ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
 - FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING EDGE DISTANCE AND O.C. SPACING REQUIREMENTS.

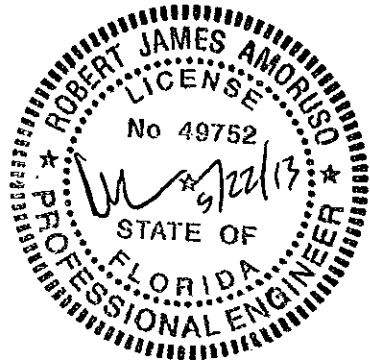
PROJECT # 411-1201.11					BY

PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219	TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS	DRAWN BY: RJA	DATE: 01/04/13	SCALE: N.T.S.	DRAWING NO: PELL0027	SHEET: 2 OF 13

Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOA# 13-0114.07
Miami Dade Product Control

By: *Manuel Perez*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

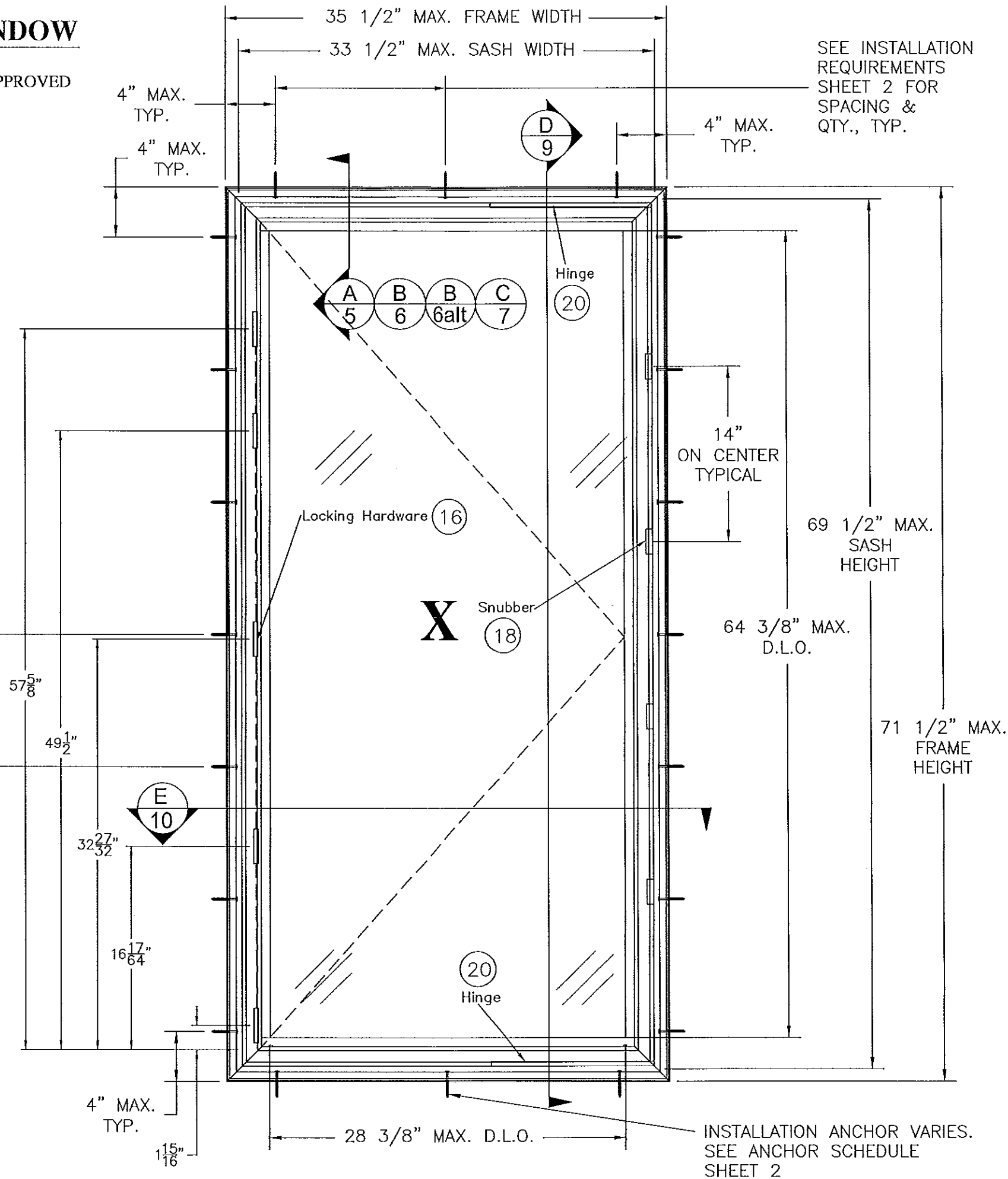


SERIES 350 VINYL CASEMENT WINDOW

EXTERIOR VIEW

BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED

SEE INSTALLATION
REQUIREMENTS SHEET 2
FOR SPACING & QTY., TYP.
(INSTALLATION CLIP
QUANTITY SHOWN)



SEE INSTALLATION
REQUIREMENTS
SHEET 2 FOR
SPACING &
QTY., TYP.

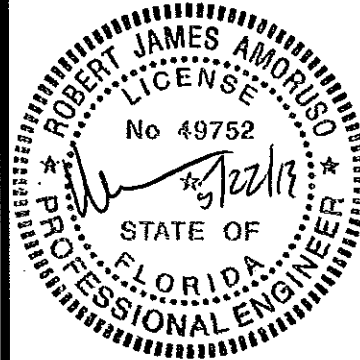
PELLA CORPORATION
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PELLA, IA 50219

TITLE: SERIES 350 4-1/2\"/>



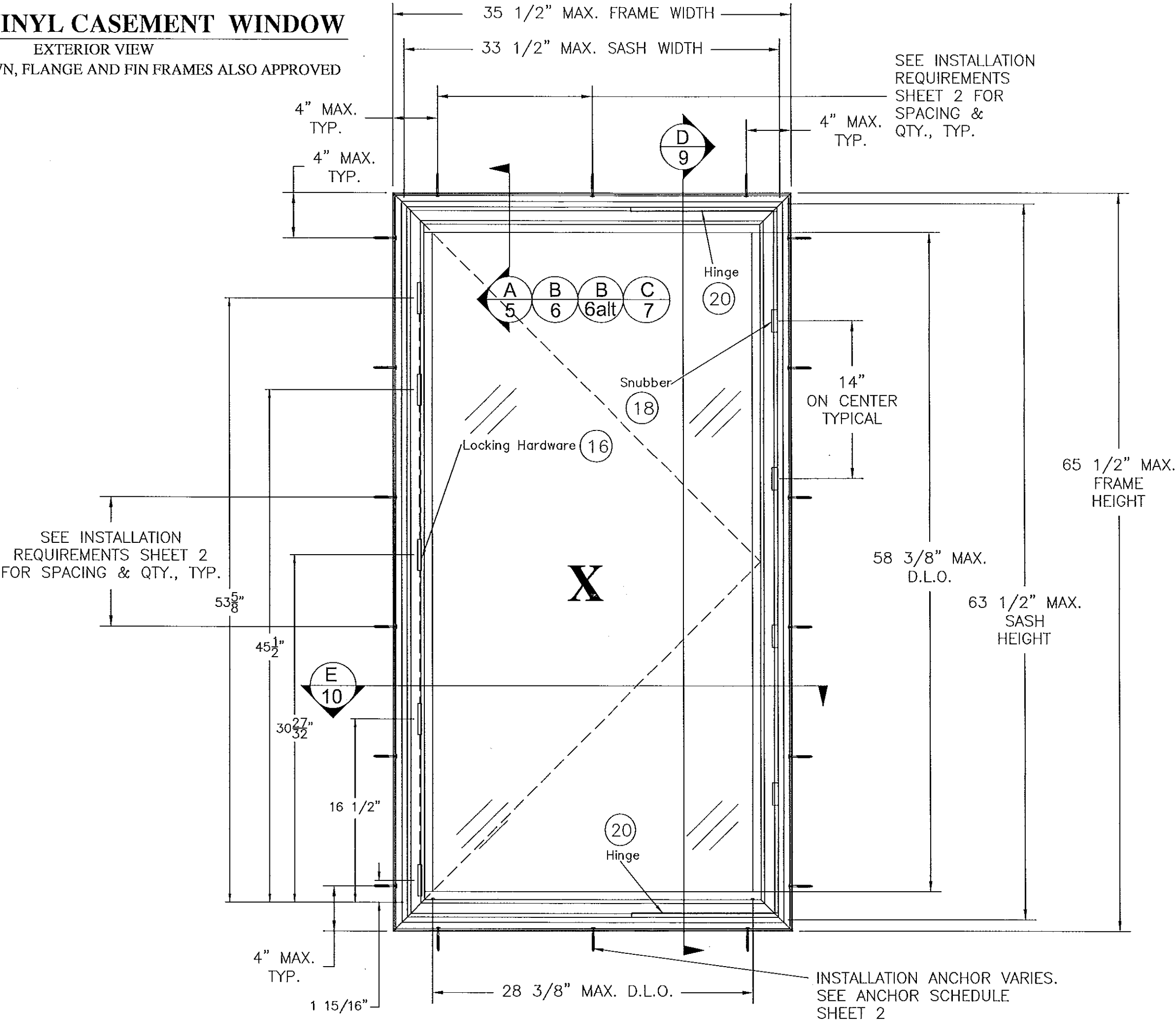
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SERIES 350 VINYL CASEMENT WINDOW

EXTERIOR VIEW
BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES ALSO APPROVED



PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

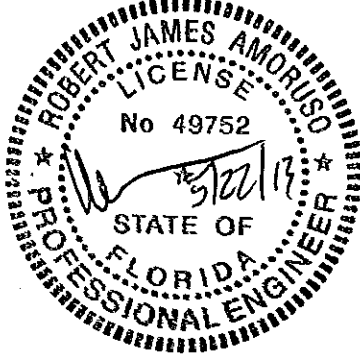
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35 1/2" X 65 1/2" ELEVATION AND ANCHORING LAYOUT

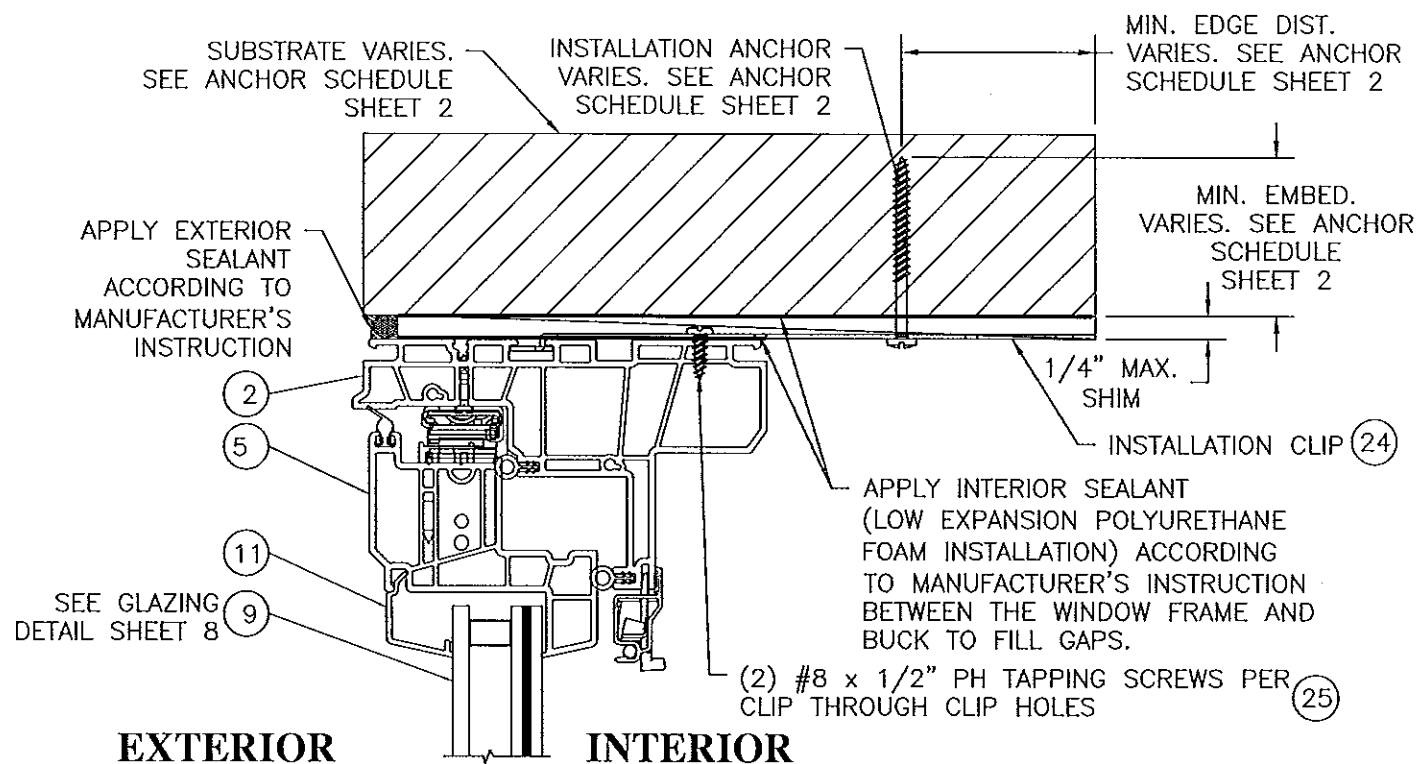
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SCALE: N.T.S.
DRAWING NO: PELL0027
SHEET: 4 OF 13

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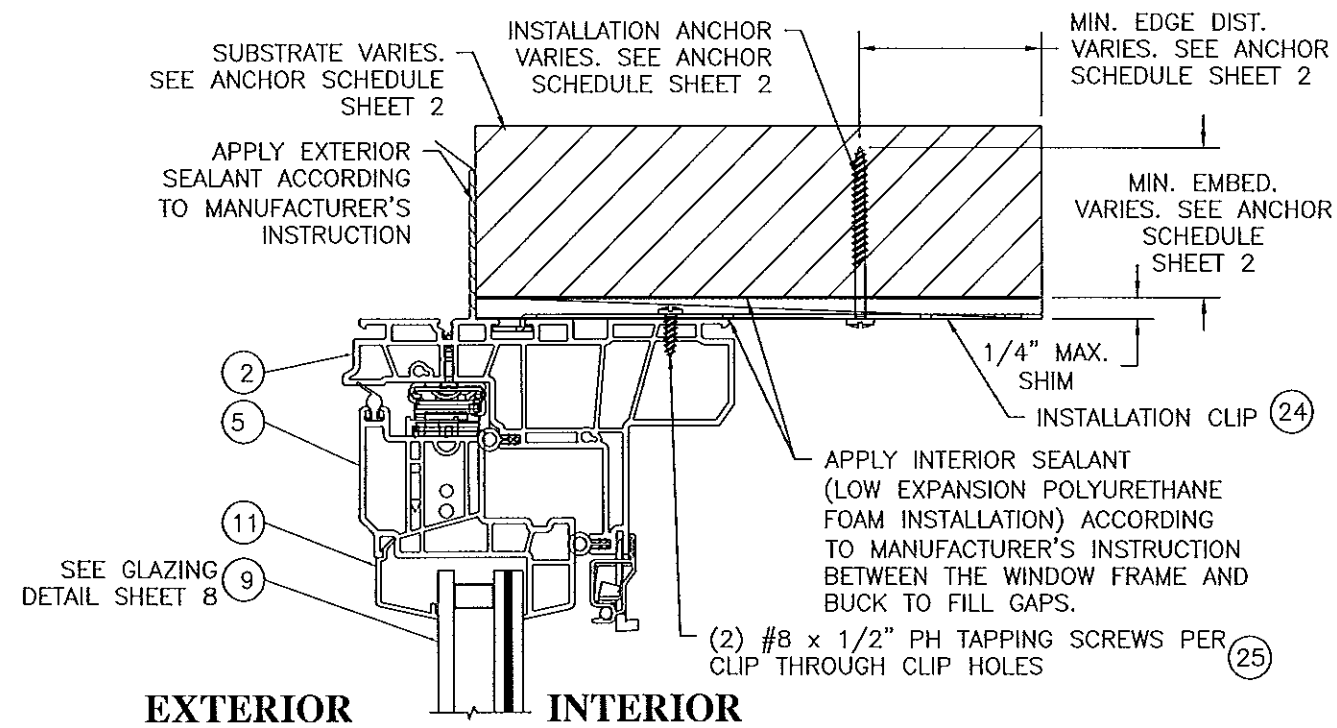
Approved as complying with the,
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Date: 12/14/2013
MOA# 13-0114-07
Miami Dade Product Controls
By: *[Signature]*

Robert J. Amoruso, P.E.
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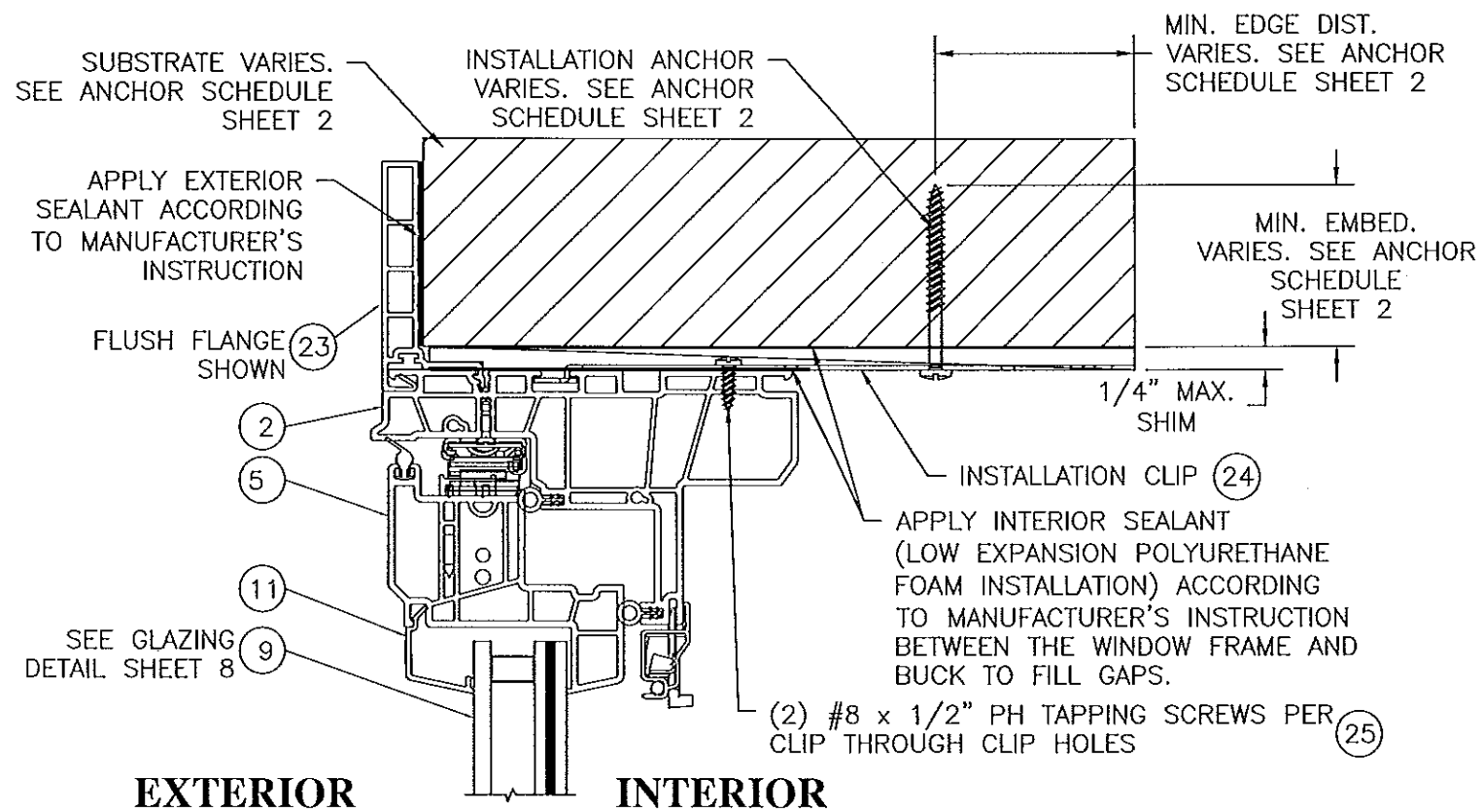




A
5 **INSTALLATION CROSS SECTION**
BLOCK FRAME, CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR



A
5 **INSTALLATION CROSS SECTION**
FIN FRAME, CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR



A
5 **INSTALLATION CROSS SECTION**
FLANGE FRAME, CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR

PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
CLIP INSTALLATION SECTIONS

PREPARED BY: RJA

DATE: 01/04/13

SCALE: N.T.S.

DRAWING NO: PELL0027

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SHEET: 5 OF 13

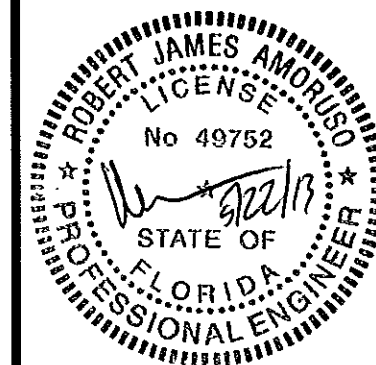
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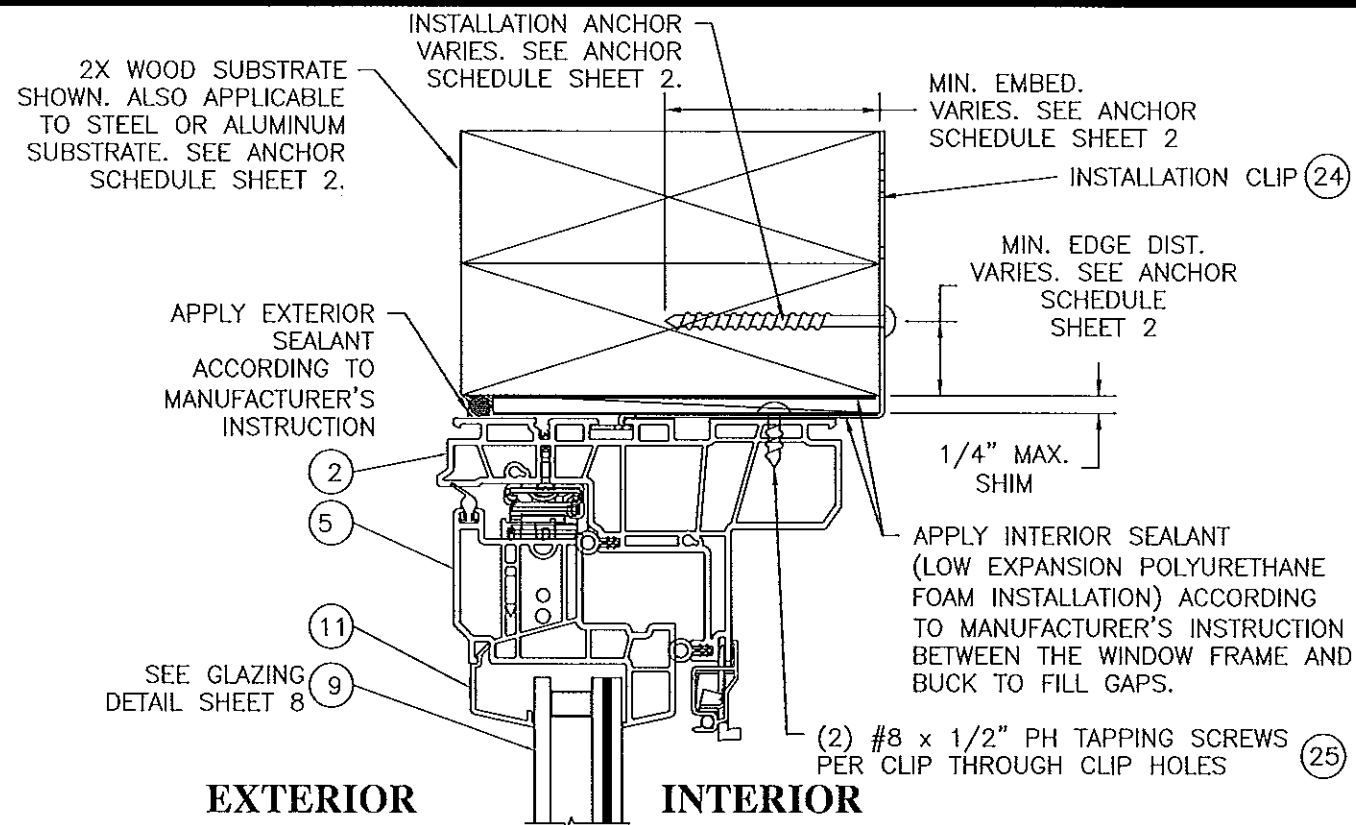
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BY

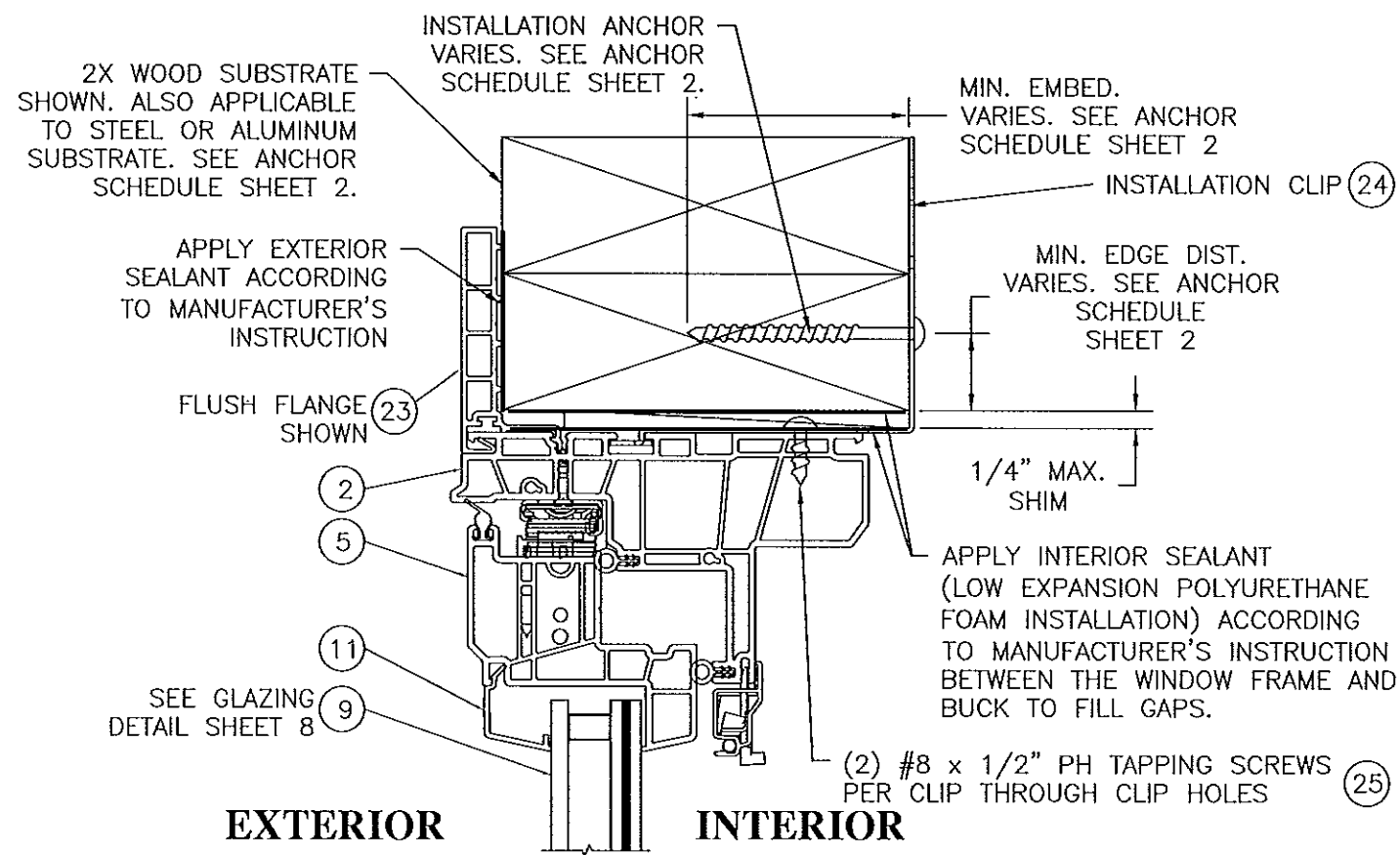
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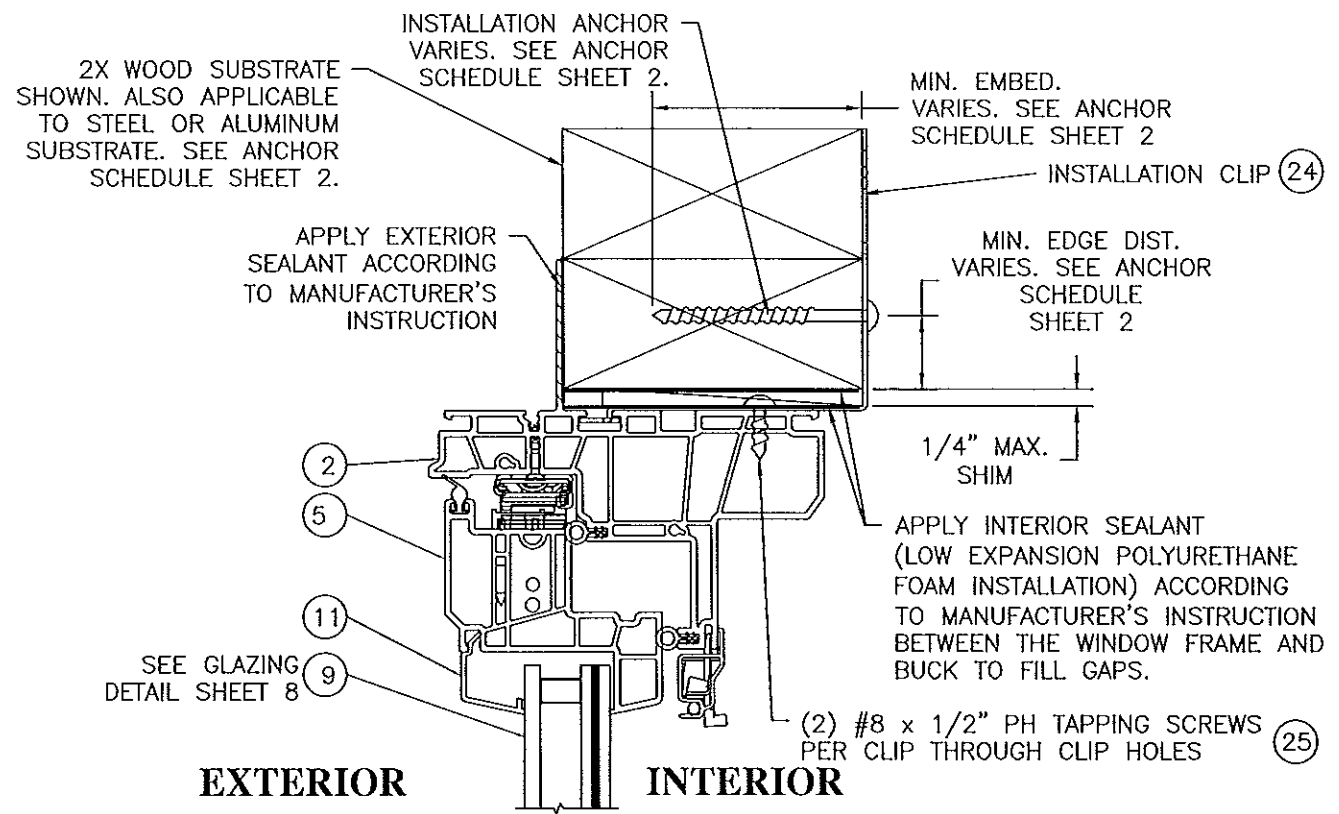




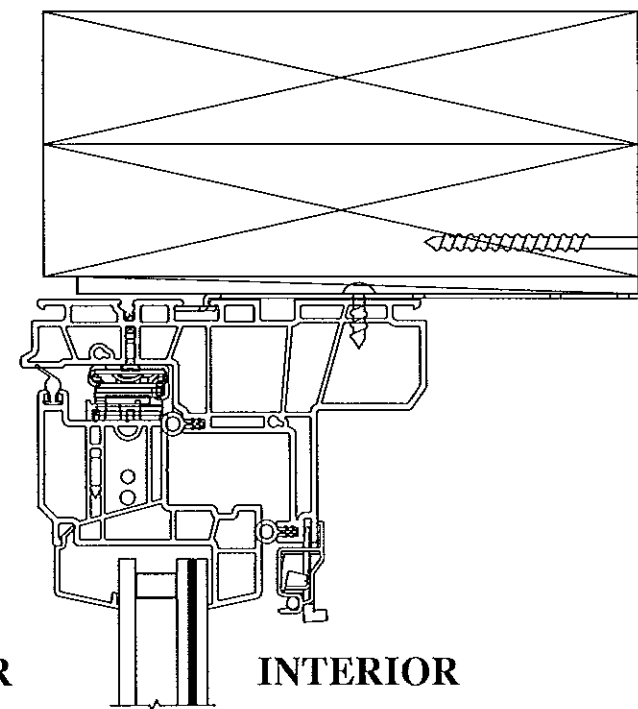
B
6 **INSTALLATION CROSS SECTION**
BLOCK FRAME, BENT CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR



B
6 **INSTALLATION CROSS SECTION**
FLANGE FRAME, BENT CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR



B
6 **INSTALLATION CROSS SECTION**
FIN FRAME, BENT CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR



B
6alt **ALTERNATE INSTALLATION CROSS SECTION**
BLOCK FRAME SHOWN
(ALSO APPLICABLE TO FIN AND FLANGE FRAME)
ALTERNATE BENT CLIP INSTALLATION
HEAD SHOWN, JAMB SIMILAR
SEE OTHER B SECTIONS FOR DETAILS

PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
BENT CLIP INSTALLATION SECTIONS

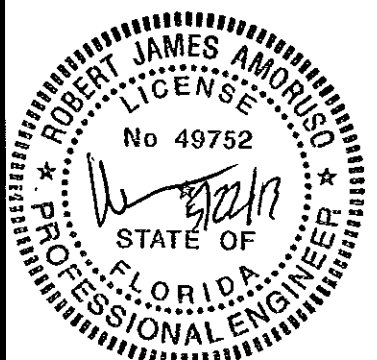
DATE: 01/04/13
DRAWING NO: PELL0027
SHEET: 6 OF 13

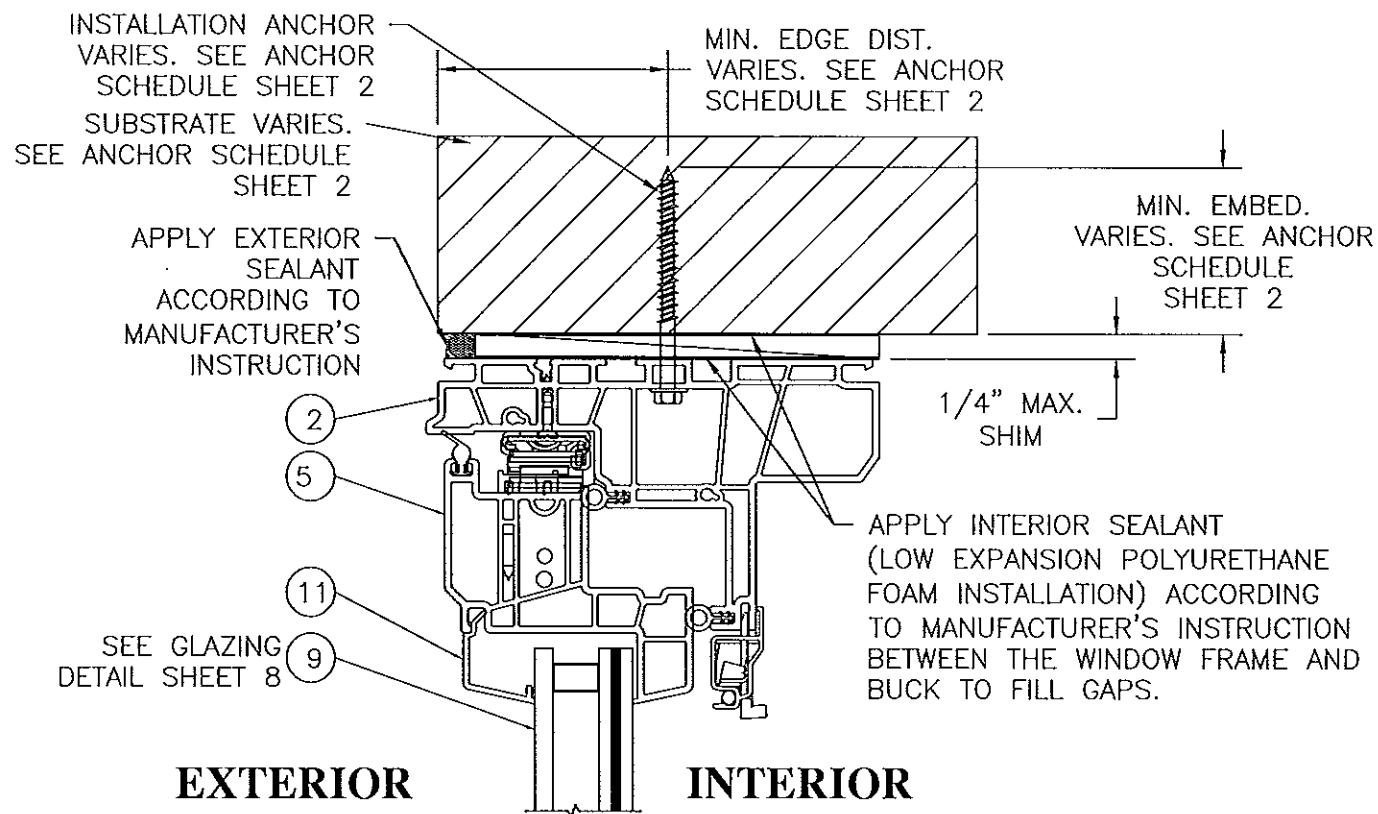
DRAWN BY: RJA
SCALE: N.T.S.
REV: -

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.680.1788
Fax: 321.680.1789
Email: info@pdc-corp.com

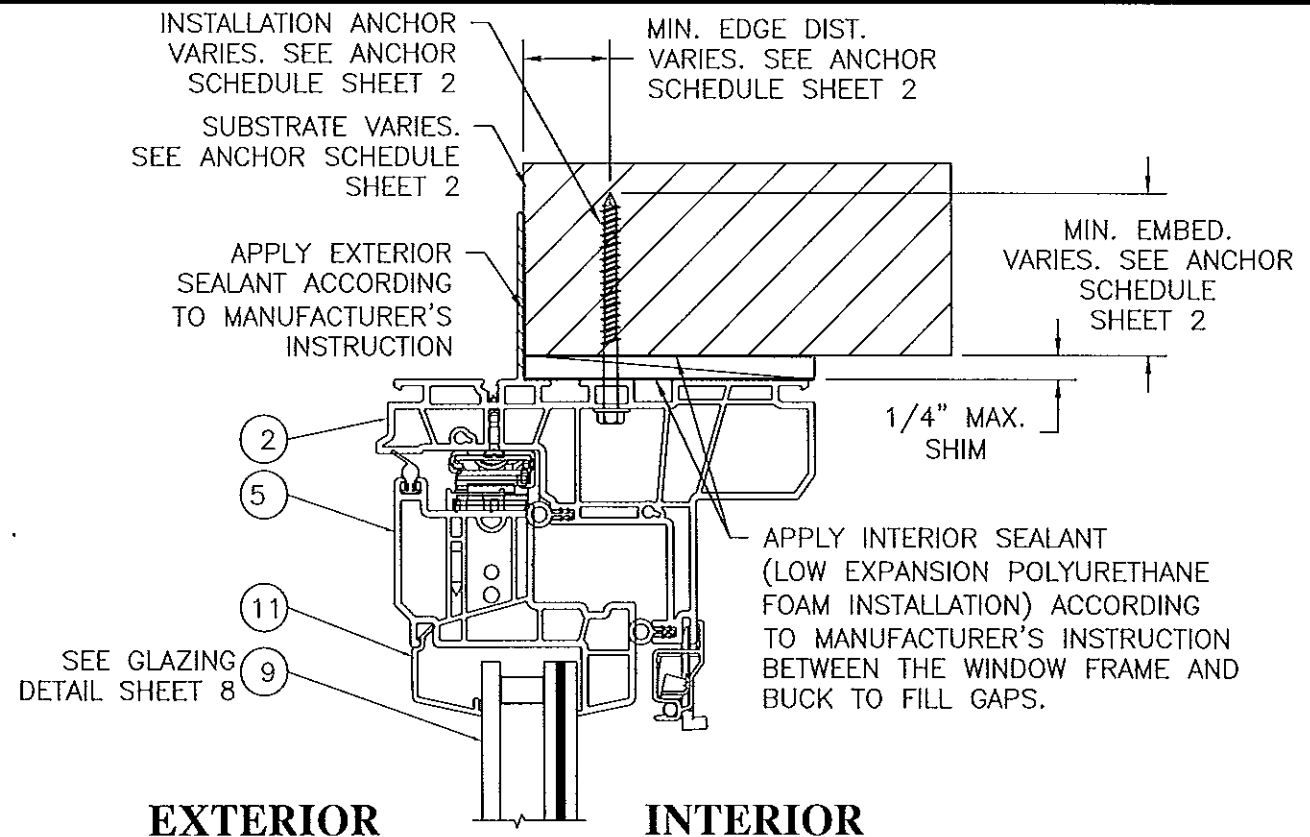
Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOAH 13-0114-07
Miami Dade Product Control
By: *[Signature]*

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

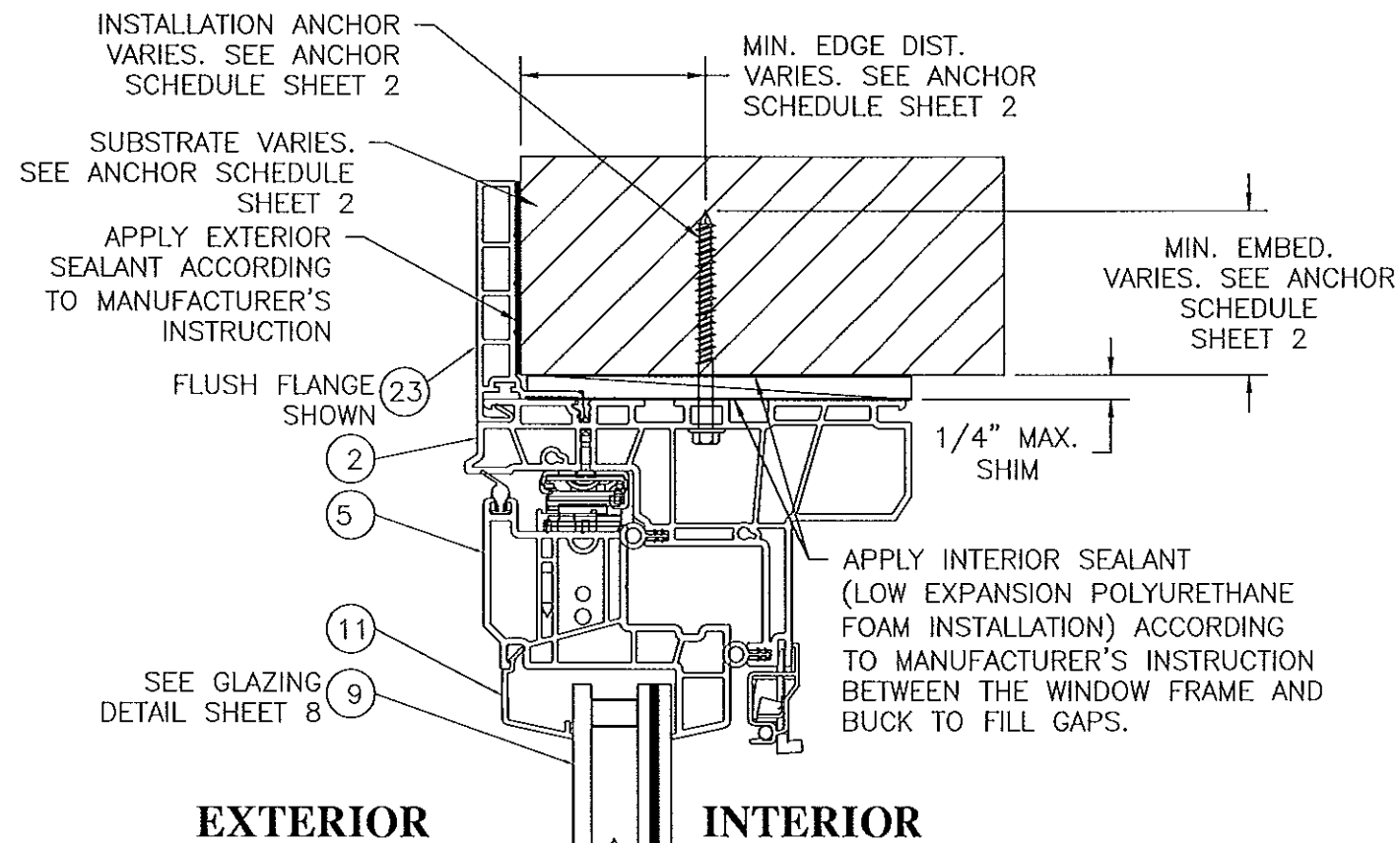




C
7 **INSTALLATION CROSS SECTION**
BLOCK FRAME, THRU FRAME INSTALLATION
HEAD SHOWN, JAMB SIMILAR



C
7 **INSTALLATION CROSS SECTION**
FIN FRAME, THRU FRAME INSTALLATION
HEAD SHOWN, JAMB SIMILAR



C
7 **INSTALLATION CROSS SECTION**
FLANGE FRAME, THRU FRAME INSTALLATION
HEAD SHOWN, JAMB SIMILAR

PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
THRU FRAME INSTALLATION SECTIONS

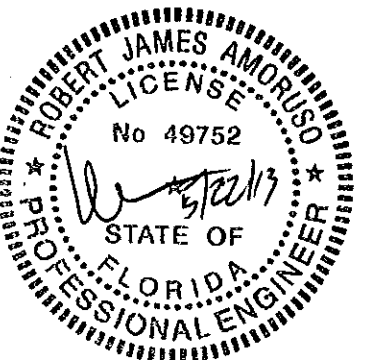
DATE: 01/04/13
DRAWING NO.: PELL0027
SHEET: 7 OF 13

DRAWN BY: RJA
SCALE: N.T.S.
REV: -

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 92072
LONGWOOD, FLORIDA 32762
FBPE C.A. NO. 25935

Approved as complying with the
Florida Building Code
Date: 4/14/2013
NOAH 13-0114.07
Miami Dade Product Control
By: *Manuel J. Amoruso*

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



GLAZING DETAIL NOTES:

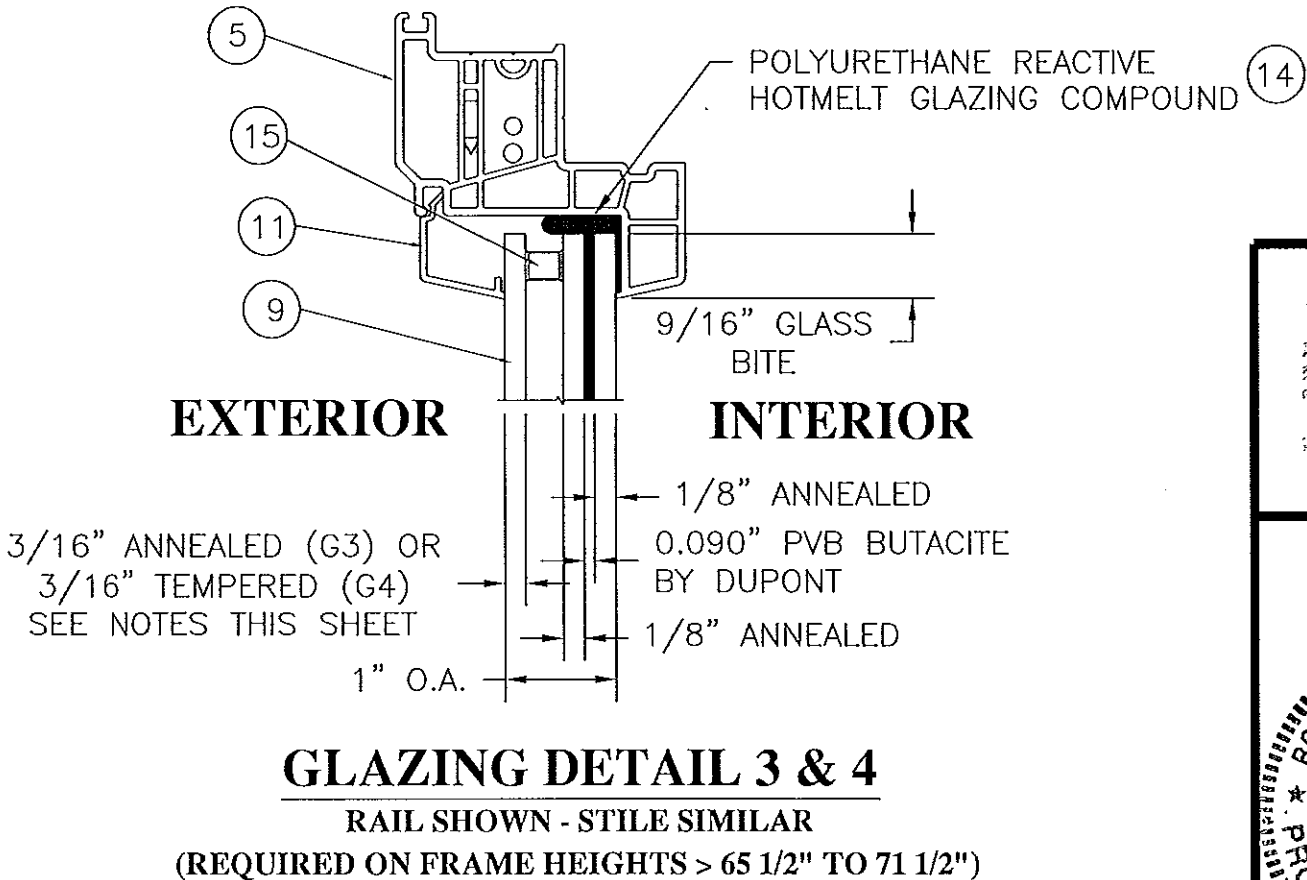
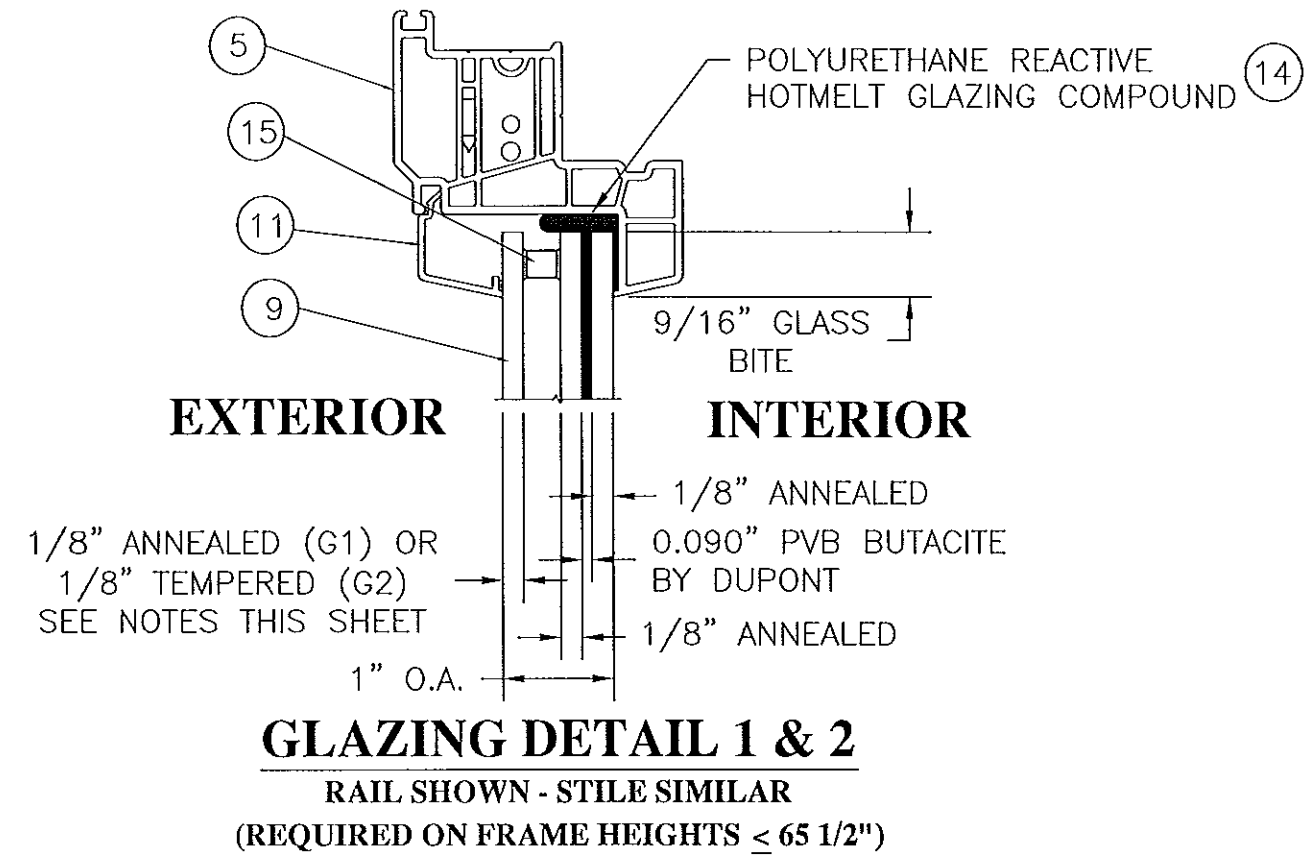
1. APPROVED GLAZING CONFIGURATIONS (SEE NOTES 3, 4 AND 5)
- 1.1.

G1 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 1/8" ANNEALED - 9/16" AIR SPACE - 1/8" ANNEALED + 0.090" PVB BUTACITE BY DUPONT + 1/8" ANNEALED. SEE NOTE 3 AND 5 BELOW.
- 1.2.

G2 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 1/8" TEMPERED - 9/16" AIR SPACE - 1/8" ANNEALED + 0.090" PVB BUTACITE BY DUPONT + 1/8" ANNEALED. SEE NOTE 3 AND 4 BELOW.
- 1.3.

G3 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 3/16" ANNEALED - 7/16" AIR SPACE - 1/8" ANNEALED + 0.090" PVB BUTACITE BY DUPONT + 1/8" ANNEALED. SEE NOTE 3 AND 5 BELOW.
- 1.4.

G4 = 1" OA IGU LAMINATED INSULATED GLASS CONSISTING OF THE FOLLOWING FROM EXTERIOR: 3/16" TEMPERED - 7/16" AIR SPACE - 1/8" ANNEALED + 0.090" PVB BUTACITE BY DUPONT + 1/8" ANNEALED. SEE NOTE 3 AND 4 BELOW.
2. SEE TABLE WINDOW SIZE VS. DESIGN PRESSURE ON SHEET 2 FOR APPROVED CONFIGURATIONS. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES AND DO NOT EXCEED THE MAXIMUM WINDOW AREA TESTED.
3. GLAZING DETAILS G1, G2, G3 AND G4 MEET LARGE MISSILE IMPACT REQUIREMENTS AT HEIGHTS UP TO 30 FEET ABOVE GRADE AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.7.
4. GLAZING DETAILS G2 AND G4 MEET SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.77.
5. GLAZING DETAILS G1 AND G3 DO NOT MEET SMALL MISSILE IMPACT REQUIREMENTS AT HEIGHTS GREATER THAN 30 FEET ABOVE GRADE AS REQUIRED BY 2010 FBC, SECTION 2411.3.3.77.
6. A MINIMUM OF TWO (2) NEOPRENE SETTING BLOCKS WITH 70 TO 90 SHORE A DUROMETER HARDNESS ARE REQUIRED AT BOTTOM (SILL) OF GLAZING LITES MORE THAN 3 FEET IN WIDTH IN ACCORDANCE WITH 2010 FBC, SECTION 2411.3.3.1.



PROJECT # 411-1201.11						

Approved as complying with the
Florida Building Code
Date July 4, 2013
by Manuel Perez
Miami Code Product Control

Robert J. Amoroso, P.E.
Florida P.E. No. 49752

ROBERT JAMES AMOROSO
LICENSE
No 49752
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	MATERIAL/VENDOR	QTY
1	FRAME SILL	MIKRON IND., INC.	1
2	FRAME HEAD	MIKRON IND., INC.	1
3	FRAME LOCK JAMB, LEFT	MIKRON IND., INC.	1
4	FRAME LOCK JAMB, RIGHT	MIKRON IND., INC.	1
5	SASH TOP RAIL	MIKRON IND., INC.	1
6	SASH BOTTOM RAIL	MIKRON IND., INC.	1
7	SASH STILE, LOCK	MIKRON IND., INC.	1
8	SASH STILE, HINGE	MIKRON IND., INC.	1
9	GLAZING	SEE GLAZING DETAIL SHEET 8	1
10	1" GLAZING BEAD, BOTTOM RAIL, WITH WEEPS	MIKRON IND., INC.	1
11	1" GLAZING BEAD, TOP RAIL	MIKRON IND., INC.	1
12	1" GLAZING BEAD, STILE	MIKRON IND., INC.	2
13	SETTING BLOCK	PVC SEE SHEET 12	AS REQ'D
14	POLYURETHANE REACTIVE HOTMELT GLAZING COMPOUND	HENKEL SA	AS REQ'D
15	11.5MM (7/16") STAINLESS STEEL SPACER	CARDINAL GLASS	AS REQ'D
16	MAXIM MULTIPOINT LOCK HANDLE ASSEMBLY	TRUTH HARDWARE	1
17	MAXIM SELF-LOCATING MULTIPOINT TIE BAR ASSEMBLY	TRUTH HARDWARE	1
18	SNUBBERS - FRAME HINGE JAMB/SASH HINGE STILE	TRUTH HARDWARE DIE CAST ZINC COATED/STAINLESS STEEL	AS REQ'D
19	ENCORE ROTO OPERATOR W/CRANK	TRUTH HARDWARE	1
20	HD HINGE TRACK AND ARM. SCREW CONNECTED AT TOP AND BOTTOM SASH RAILS (NOT SHOWN IN SECTION VIEWS)	TRUTH HARDWARE	2
21	TPE BULB WEATHERSTRIP 6.9MM (0.27") DIA. - AWNING FRAME	INTEK PLASTICS	AS REQ'D
22	FOAM FILLED LEAF SEAL 13MM (0.50") LONG - SASH FRAME	AMESBURY INDUSTRIES	AS REQ'D
23	FLANGE (OPTIONAL)	MIKRON IND., INC.	4
	FLUSH FLANGE (SNAP-ON)	MIKRON IND., INC.	
	5/8" FLANGE (SNAP-ON)	MIKRON IND., INC.	
24	INSTALLATION CLIP	SEE SHEET 12	AS REQ'D
25	#8 x 1/2" TAPPING SCREW	AISI 1018 STEEL	AS REQ'D

PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
BILL OF MATERIALS

DATE: 01/04/13

DRAWN BY: RJA

SCALE: N.T.S.

SHEET: 9 OF 13

REV:

DESCRIPTION

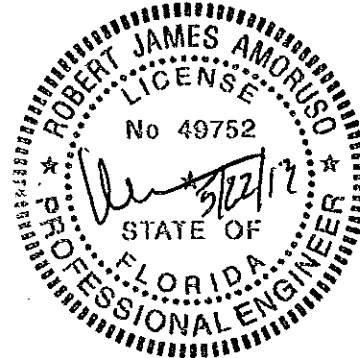
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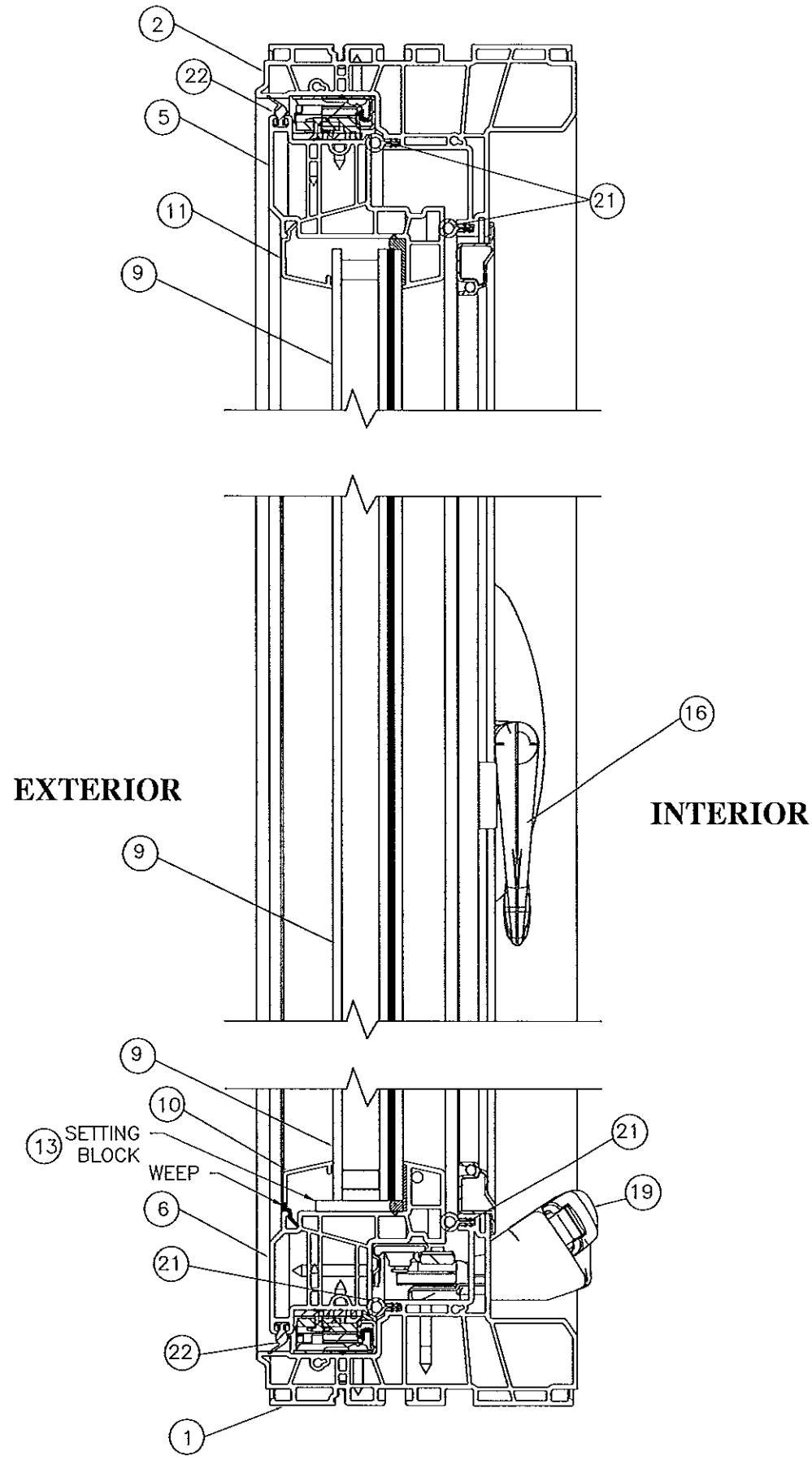
BY

Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOAH 134014-07
Miami Dade Product Control

By: Manuel Perez

Robert J. Amoroso, P.E.
Florida P.E. No. 49752



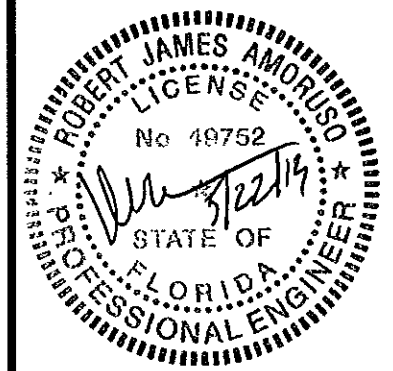


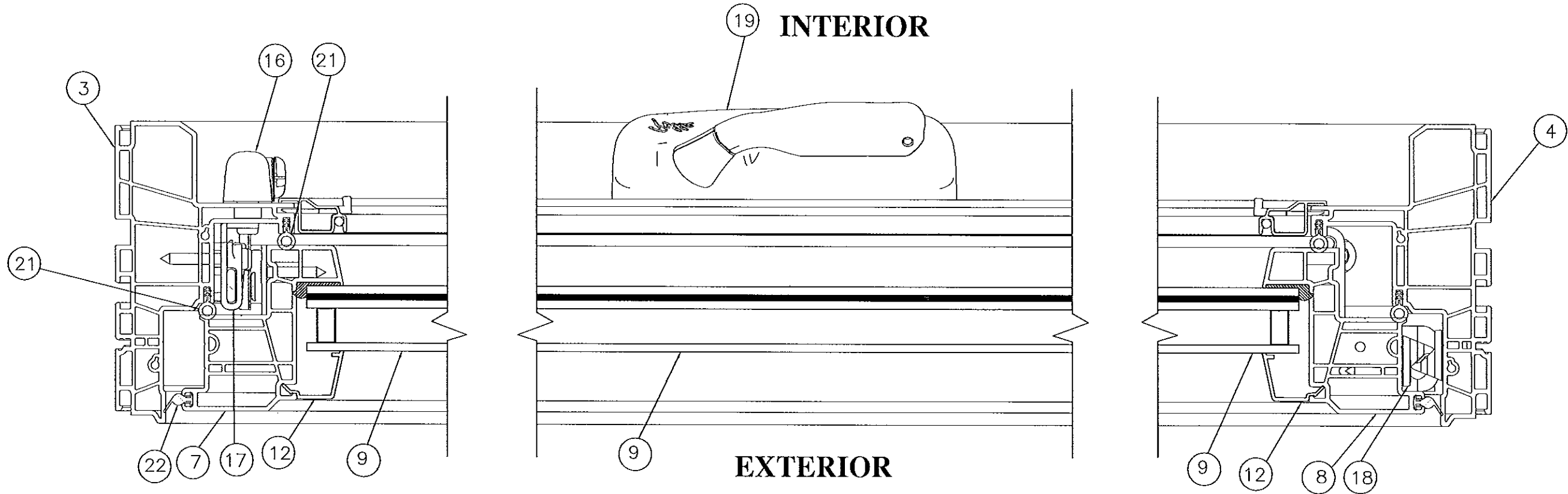
D **VERTICAL CROSS SECTION**
10 BLOCK FRAME SHOWN, FLANGE AND FIN
FRAMES ALSO APPROVED

PROJECT # 411-1201.11				REV	DESCRIPTION	DATE	BY
PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219							
TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT VERTICAL CROSS SECTION							
PREPARED BY:	DRAWN BY:	DATE:	SCALE:	DRAWING NO.:	SHEET:		
PTC PRODUCT DESIGN GROUP, LLC PO BOX 132076 LONGVIEW, TX 75602-0752 FBI, CA, NO. 26835	RJA	01/04/13	N.T.S.	PELL0027	10 OF 13		

Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOA# 1310714-07
Miami Dade Product Control
By: Maurice Perry

Robert J. Amoruso, P.E.
Florida P.E. No. 49752





E **HORIZONTAL CROSS SECTION**
11 BLOCK FRAME SHOWN, FLANGE AND FIN FRAMES
 ALSO APPROVED

PROJECT # 411-1201.11

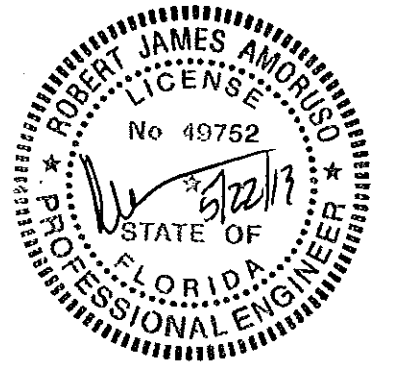
PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
 HORIZONTAL CROSS SECTION

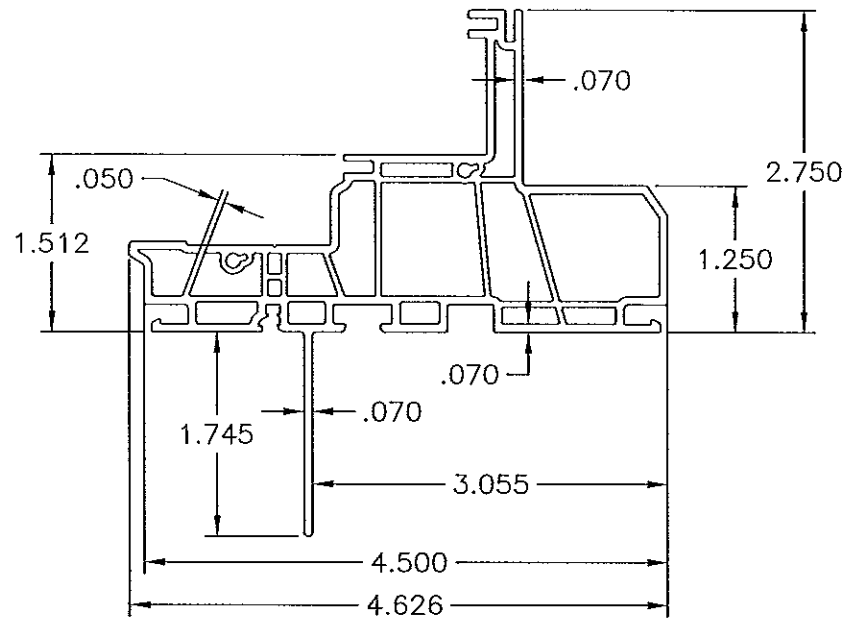
PREPARED BY:	DRAWN BY:	DATE:	REV:
	RJA	01/04/13	
	SCALE:	DRAWING NO:	
	N.T.S.	PELL0027	
		SHEET:	11 OF 13

Approved as complying with the
 Florida Building Code
 Date: July 4, 2013
 NOA# 13-1614-01
 Miami Dade Product Control
 By: Mamuel J...

Robert J. Amoruso, P.E.
 Florida P.E. No. 49752

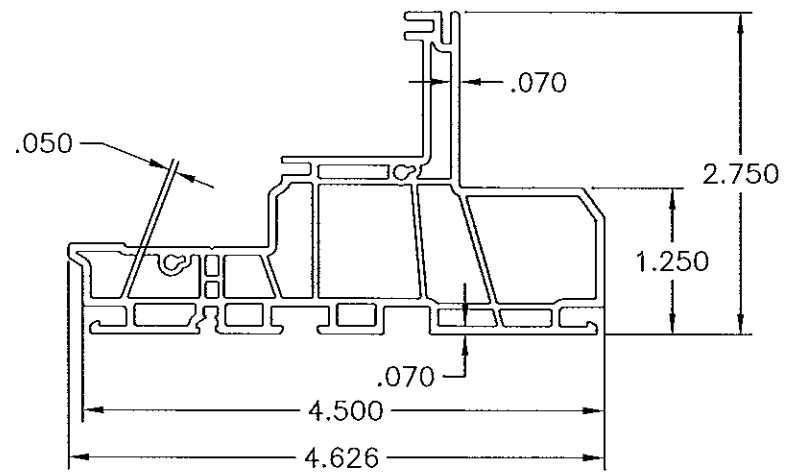


COMPONENT SECTIONS



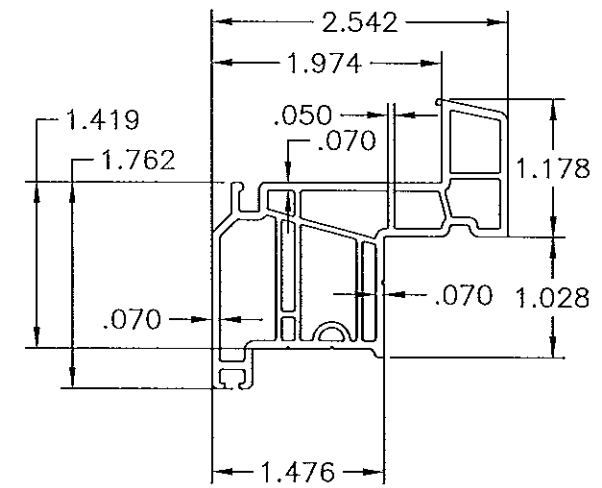
FIN FRAME/HEAD, SILL OR JAMB

① ② ③ ④



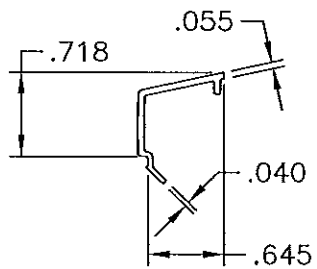
BLOCK FRAME/HEAD, SILL OR JAMB

① ② ③ ④



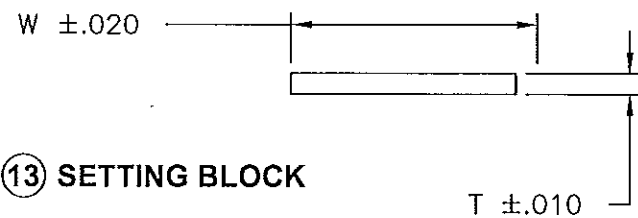
SASH TOP AND BOTTOM RAILS, STILES

⑤ ⑥ ⑦ ⑧



GLAZING BEAD

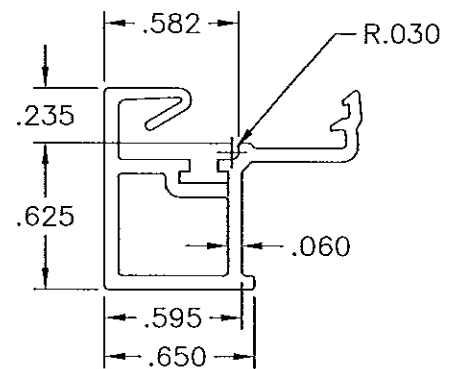
⑩ ⑪ ⑫



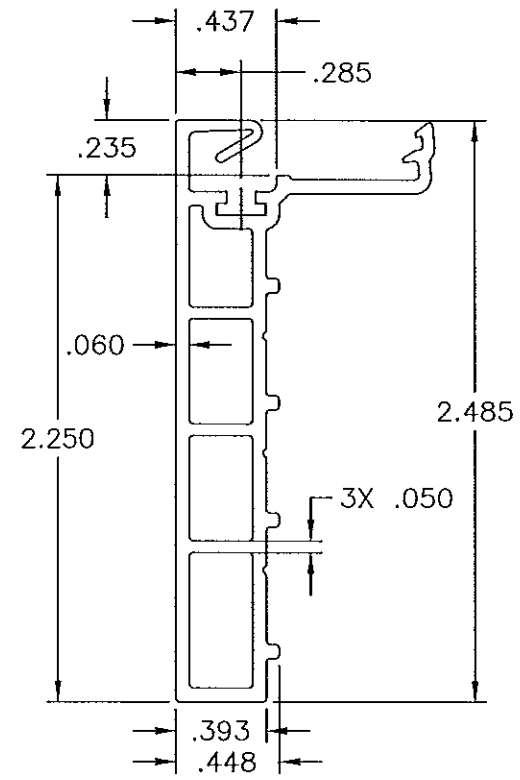
13 SETTING BLOCK

MATERIAL: PVC
HARDNESS: SHORE A 80-90,
SHORE D 75-87


WIDTH AND THICKNESS VARY



②③ 5/8" FLANGE (SNAP-ON)

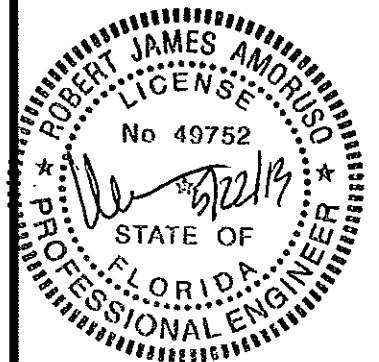


②③ FLUSH FLANGE (SNAP-ON)

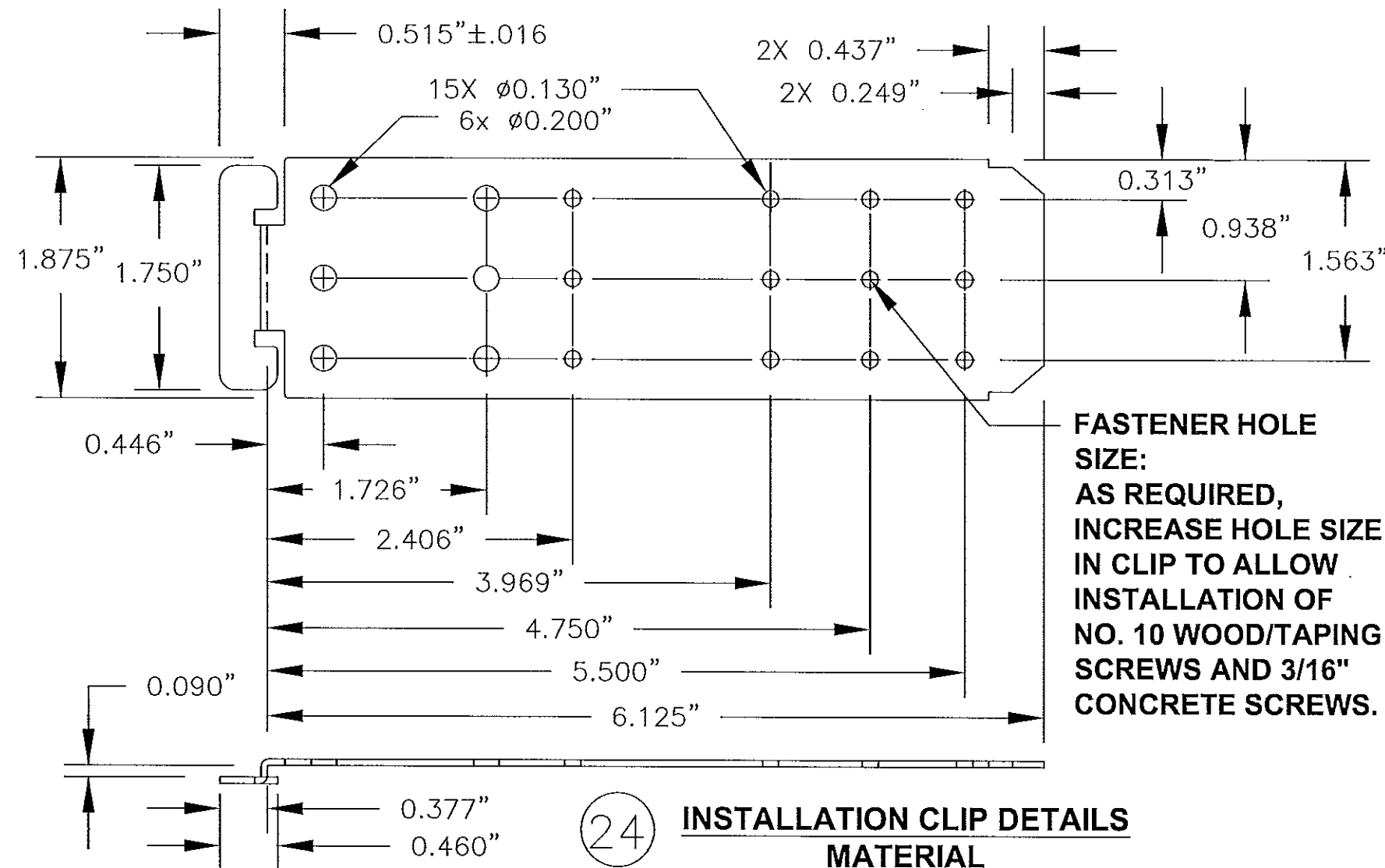
PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219		PROJECT # 411-1201.11	
TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT COMPONENT SECTIONS			
PREPARED BY: 			
DRAWN BY: RJA		DATE: 01/04/13	
SCALE: N.T.S.		DRAWING NO: PELL0027	
REV: -		SHEET: 12 OF 13	
PDC PRODUCT DESIGN GROUP, LLC PO BOX 920775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25935 Phone: 321.660.1788 Fax: 321.660.1786 Email: info@pdc-corp.com		REV	DESCRIPTION
		DATE	BY

Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOAH# 13-0112.07
Miami Dade Product Control
By: Mamuel Perez

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



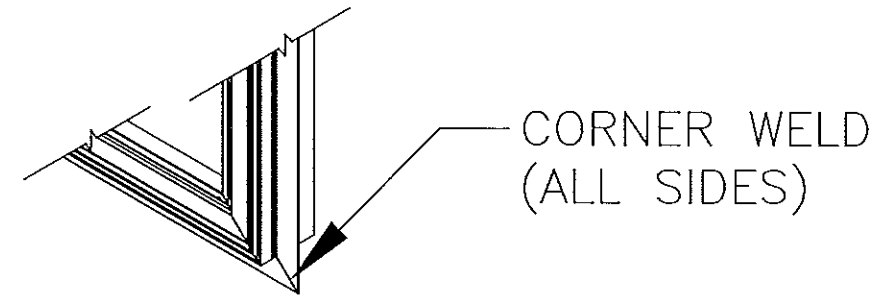
INSTALLATION CLIP DETAIL



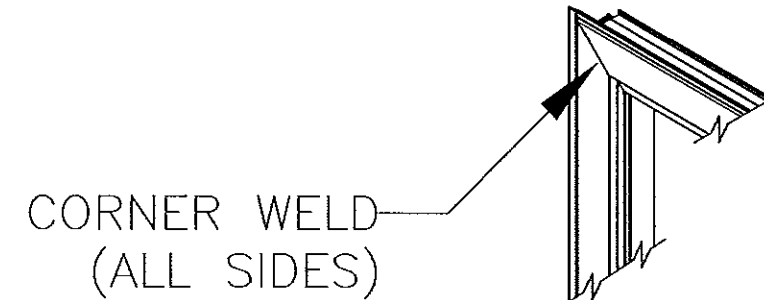
**FASTENER HOLE
SIZE:
AS REQUIRED,
INCREASE HOLE SIZE
IN CLIP TO ALLOW
INSTALLATION OF
NO. 10 WOOD/TAPING
SCREWS AND 3/16"
CONCRETE SCREWS.**

**(24) INSTALLATION CLIP DETAILS
MATERIAL
.0516 ± 0.003" HOT DIP GALV. SHEET STEEL
ROCKWELL "B" 65 MAX.
ULTIMATE STRENGTH = 55 KSI MIN.
YIELD STRENGTH = 30 KSI MIN.**

CORNER CONSTRUCTION



**FRAME CORNER
CONSTRUCTION**



**SASH CORNER
CONSTRUCTION**

PROJECT # 411-1201.11

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE: SERIES 350 4-1/2" VINYL CASEMENT WINDOW - IMPACT
INSTALLATION CLIP DETAIL & CORNER CONSTRUCTION

DATE: 01/04/13

DRAWING NO: PELL0027

SHEET: 13 OF 13

DRAWN BY: RJA

SCALE: N.T.S.

REV: -

PREPARED BY:

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 80770
LONGWOOD, FLORIDA 32782
PHONE: 321.680.1768
FAX: 321.680.1769
EMAIL: info@ptc-corp.com

Approved as complying with the
Florida Building Code
Date: July 4, 2013
NOAH 131014.01
Miami Dade Product Control
By: Manuel Perez

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

